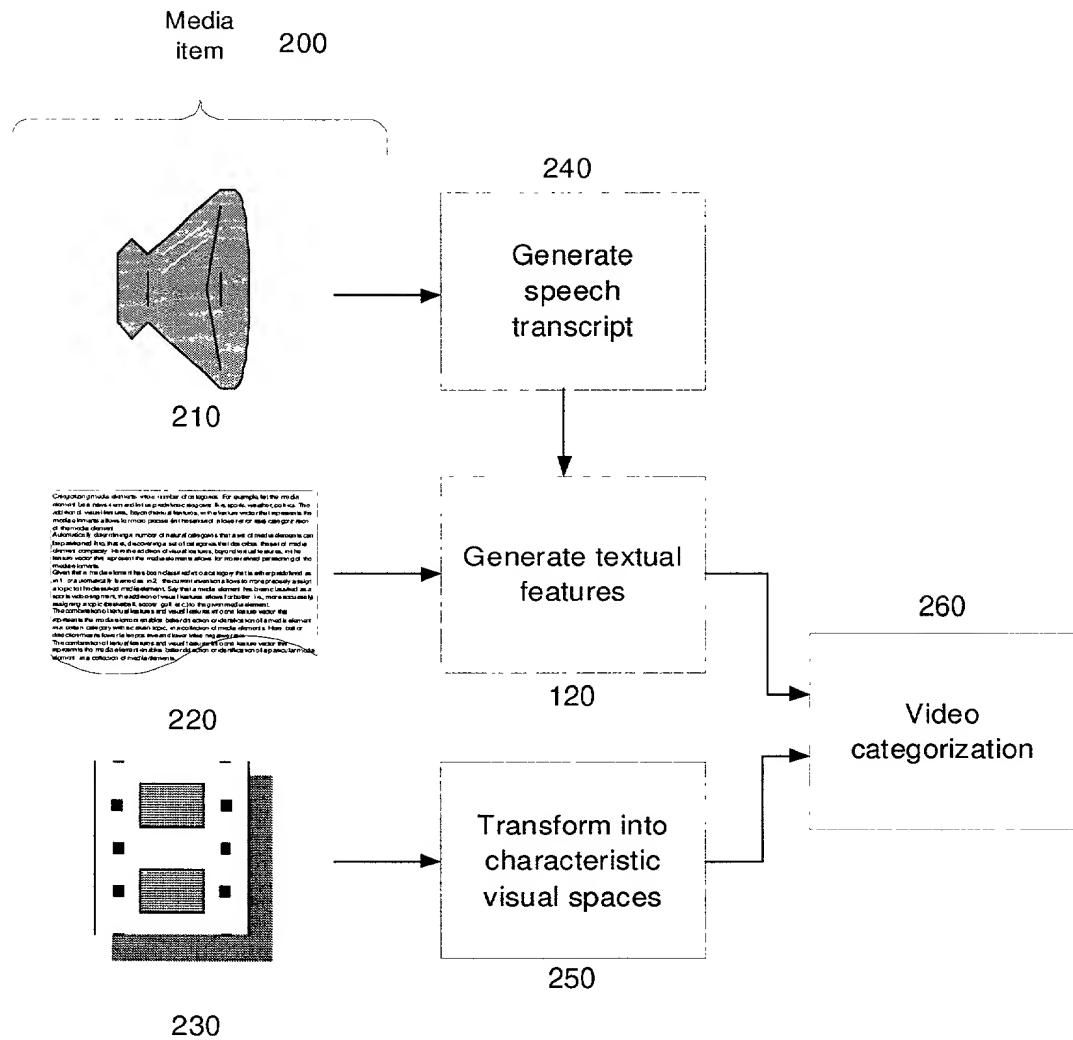


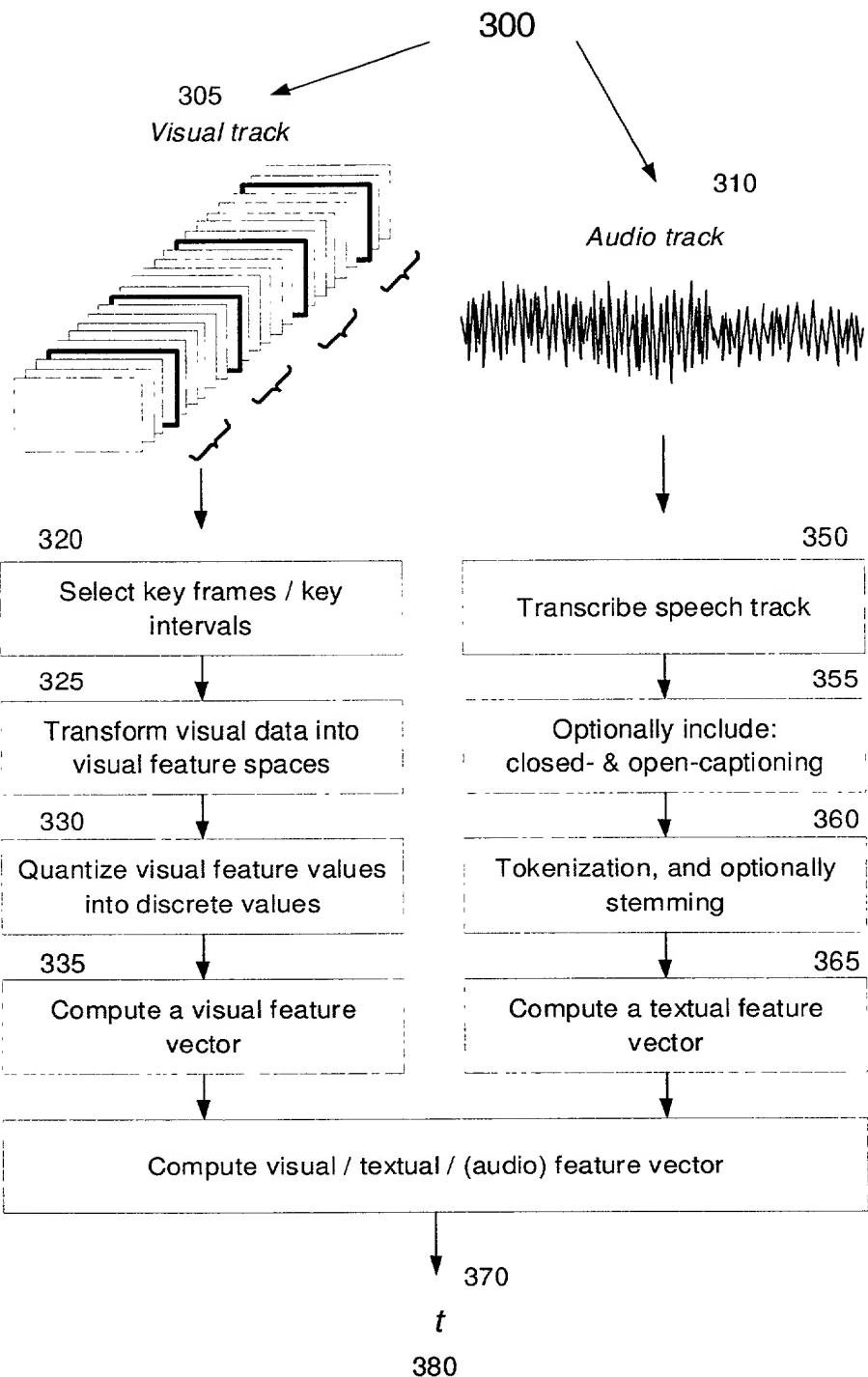
**Prior Art**

100

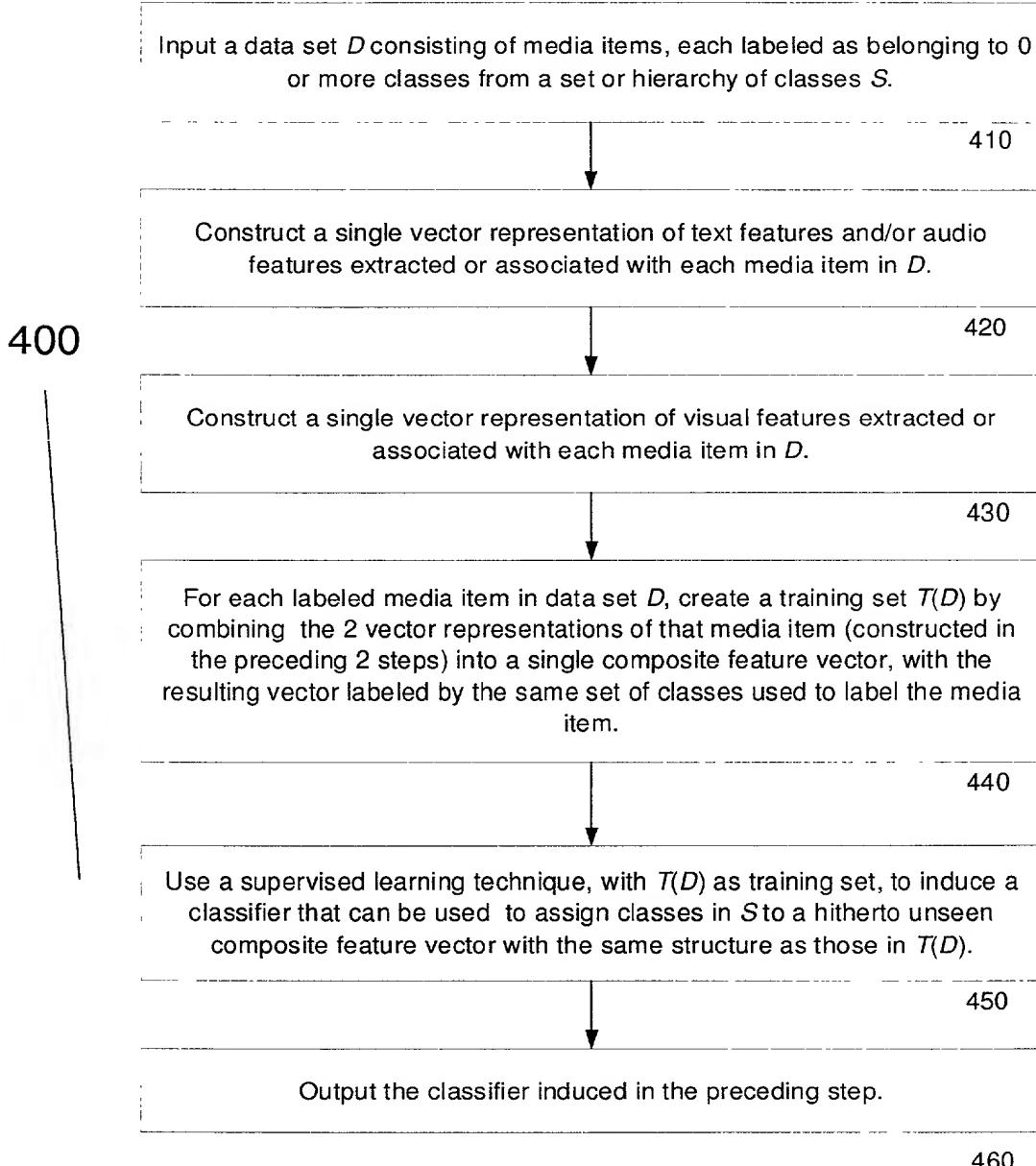
**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**

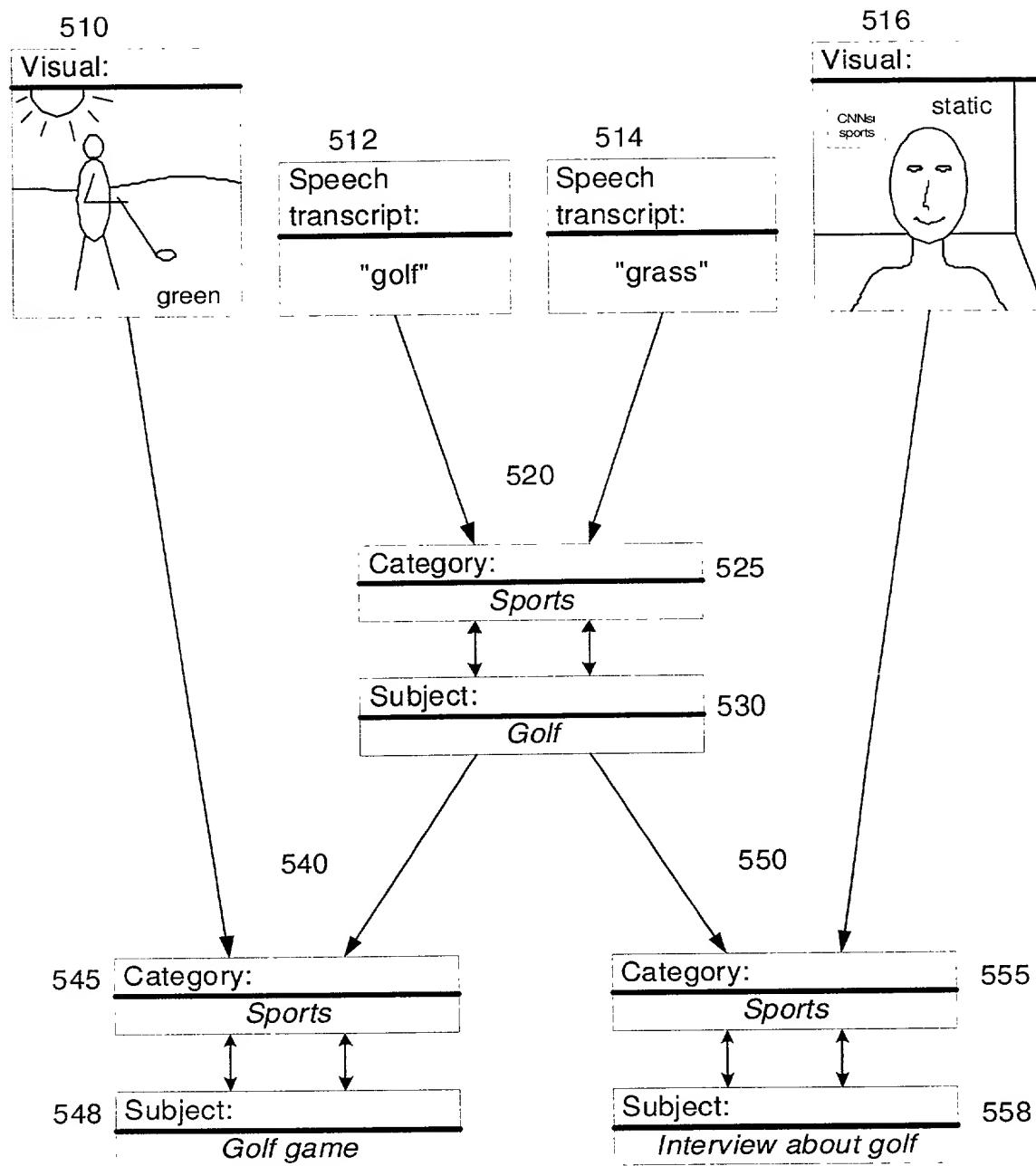
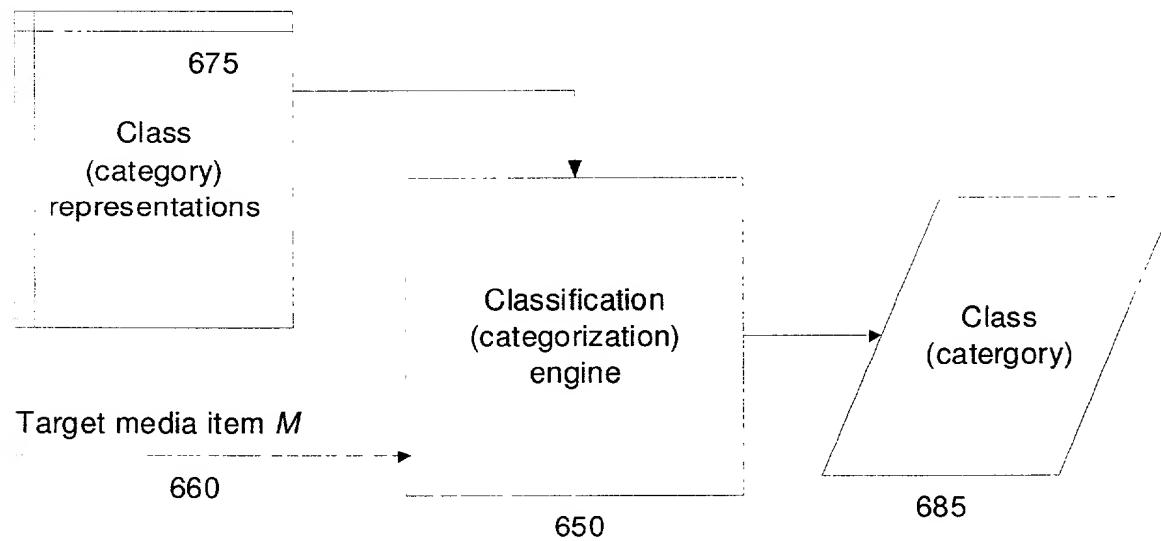


Figure 5



Training / learning phase 610

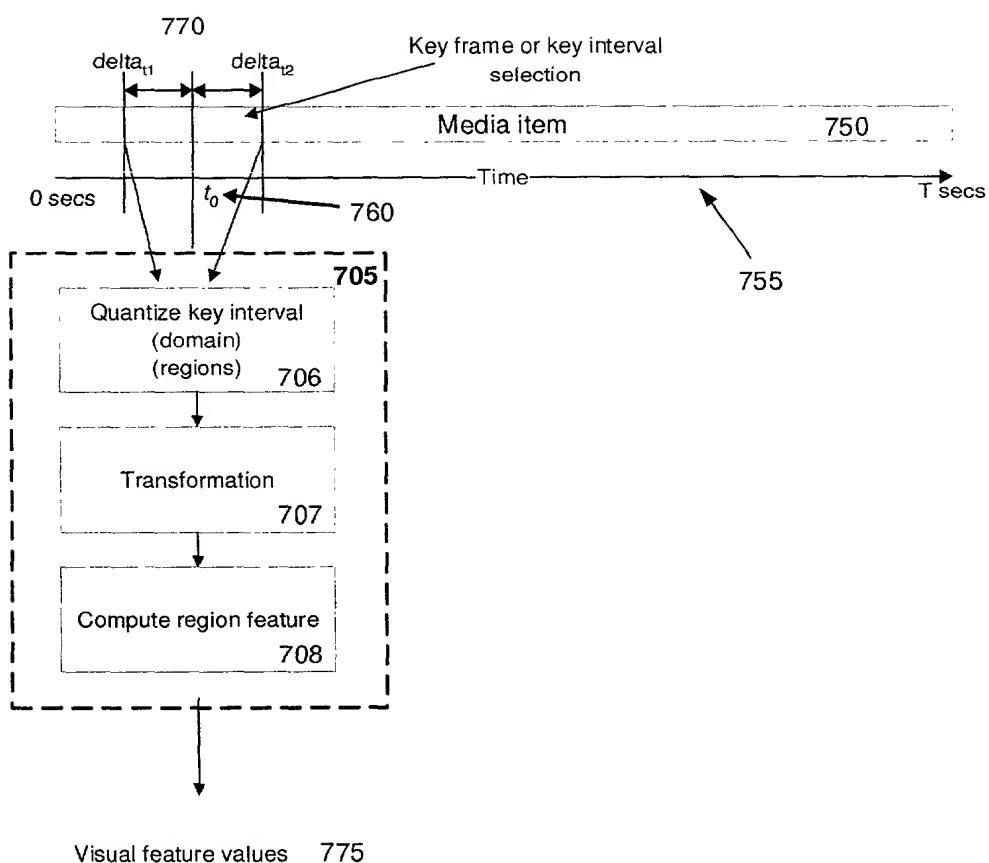
**A**



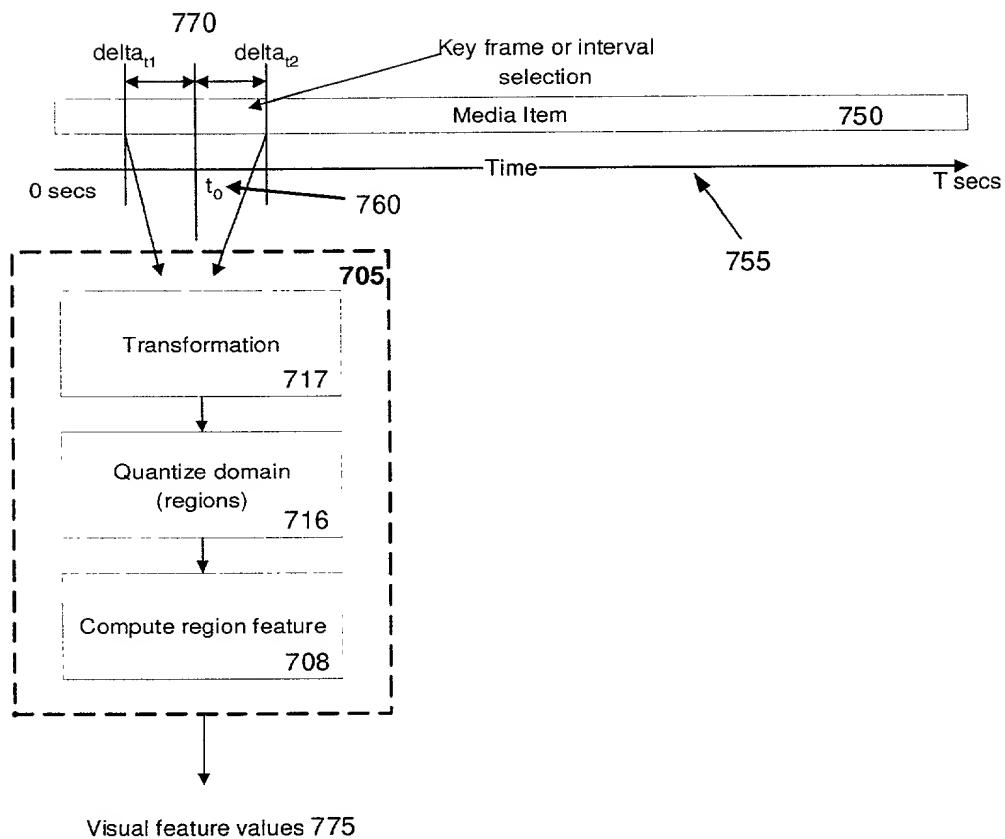
Classification phase 615

**B**

Figure 6

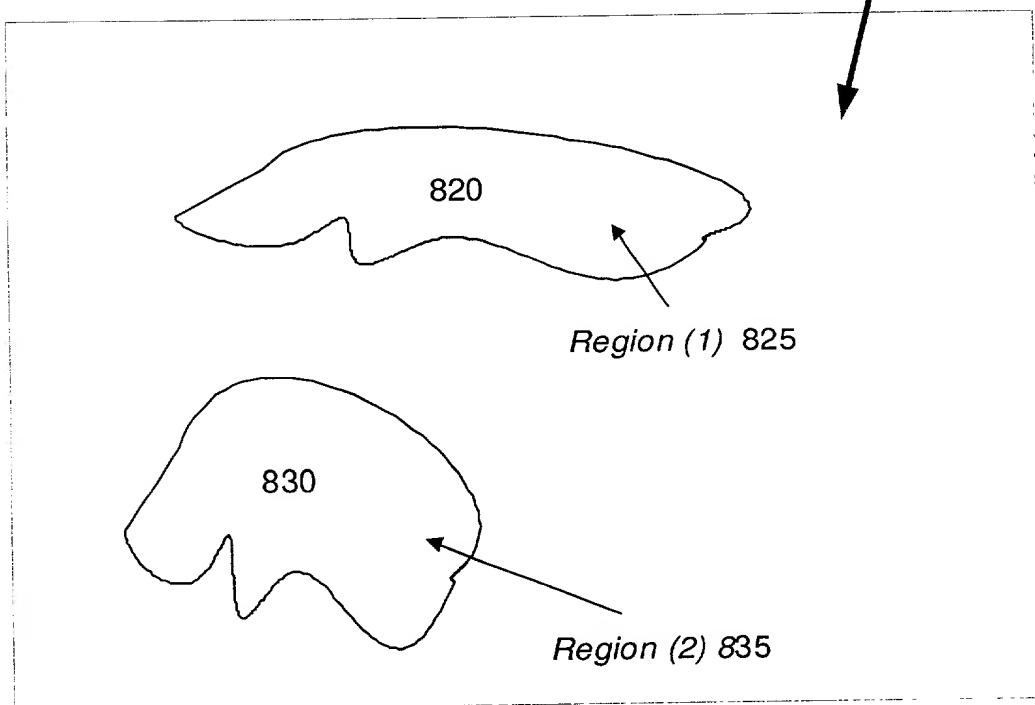


**Figure 7A**

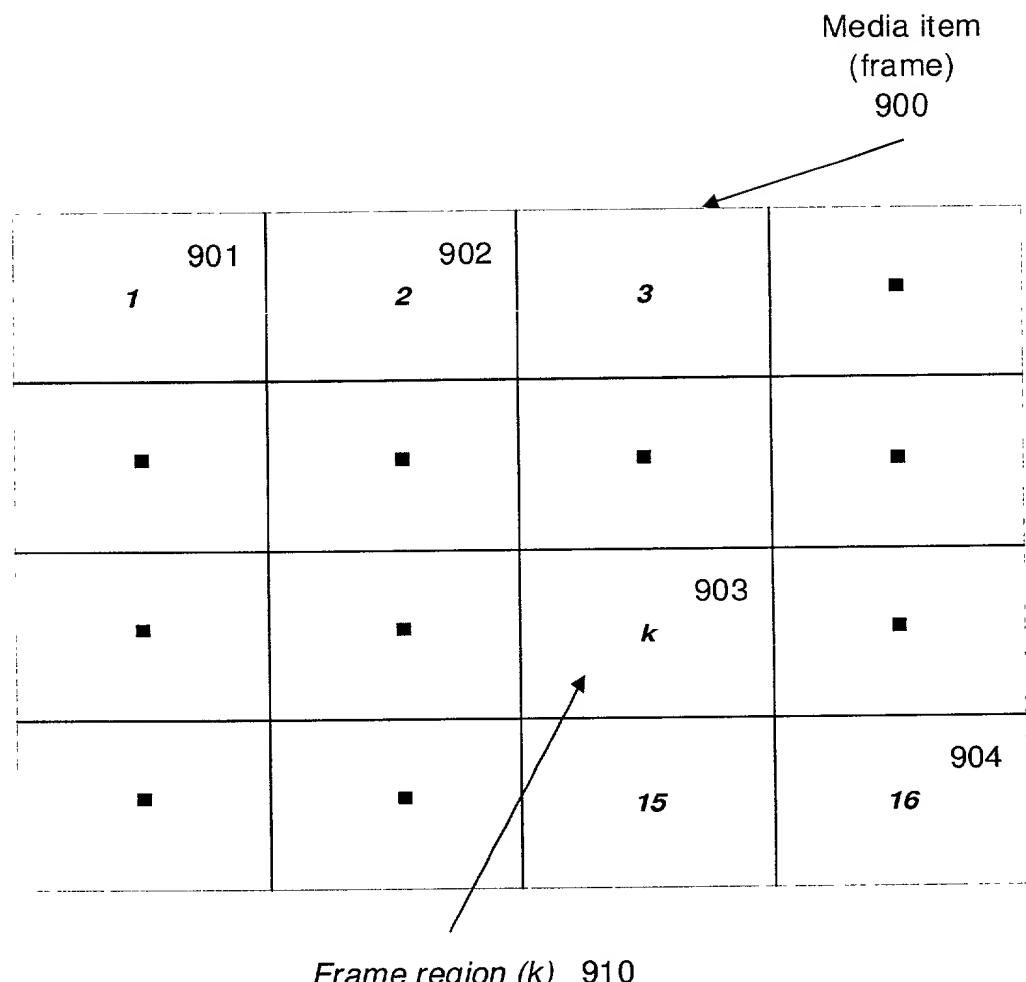


**Figure 7B**

(Part of)  
media item  
810



**Figure 8**



**Figure 9**

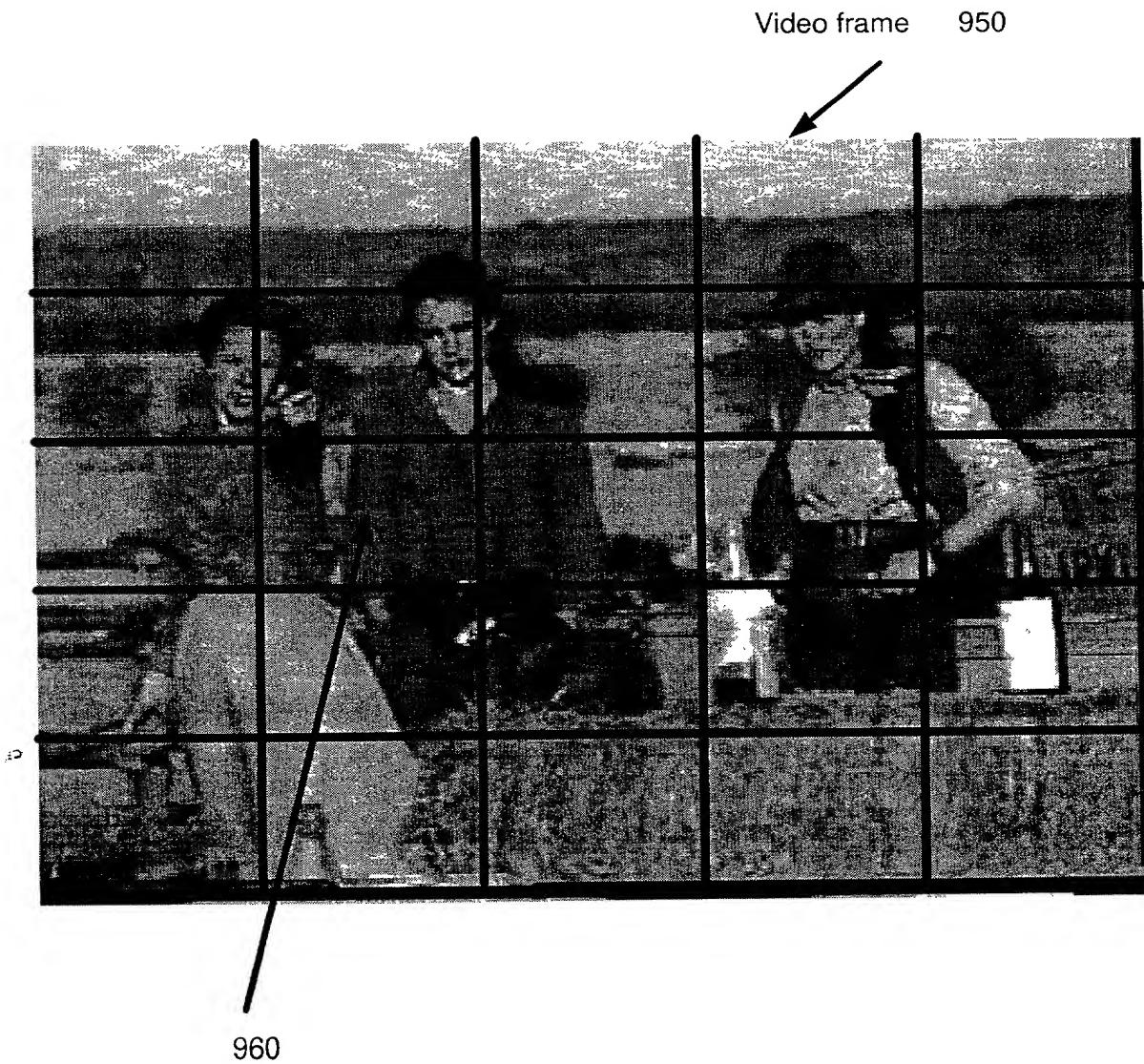
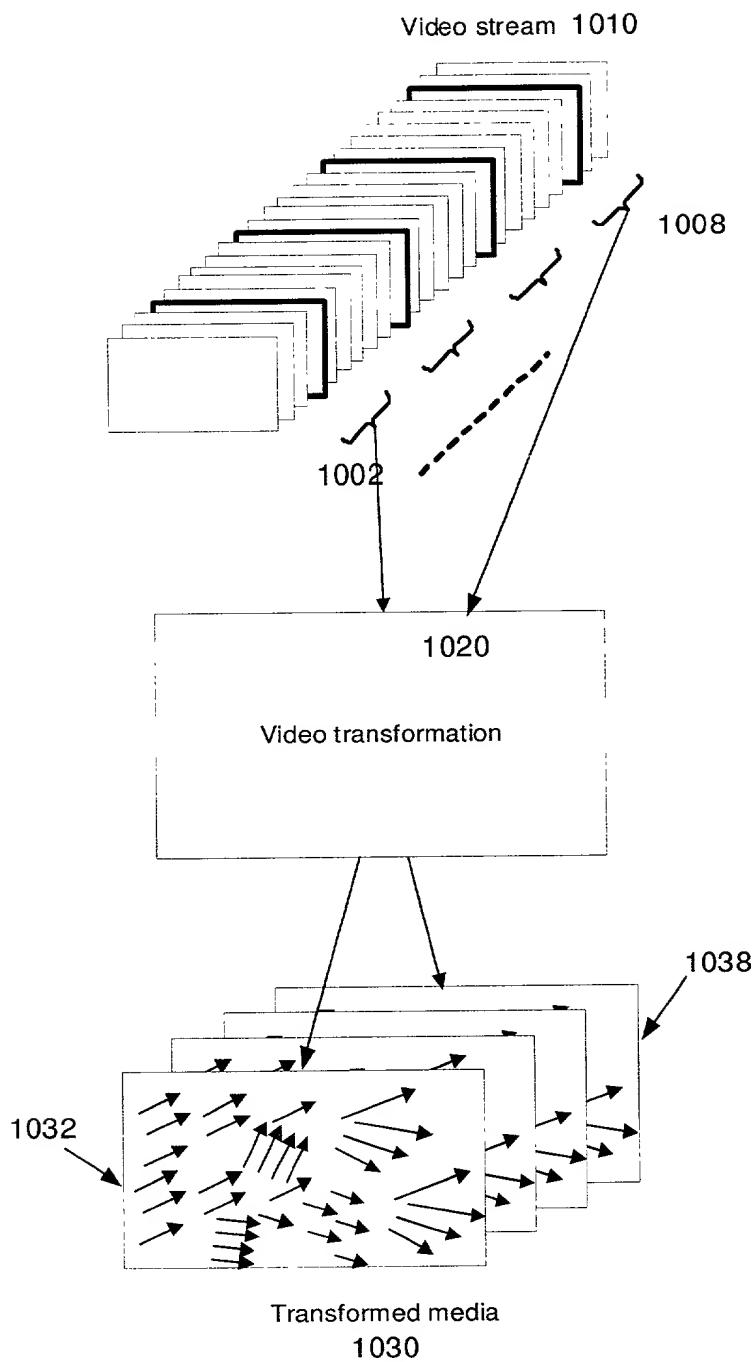
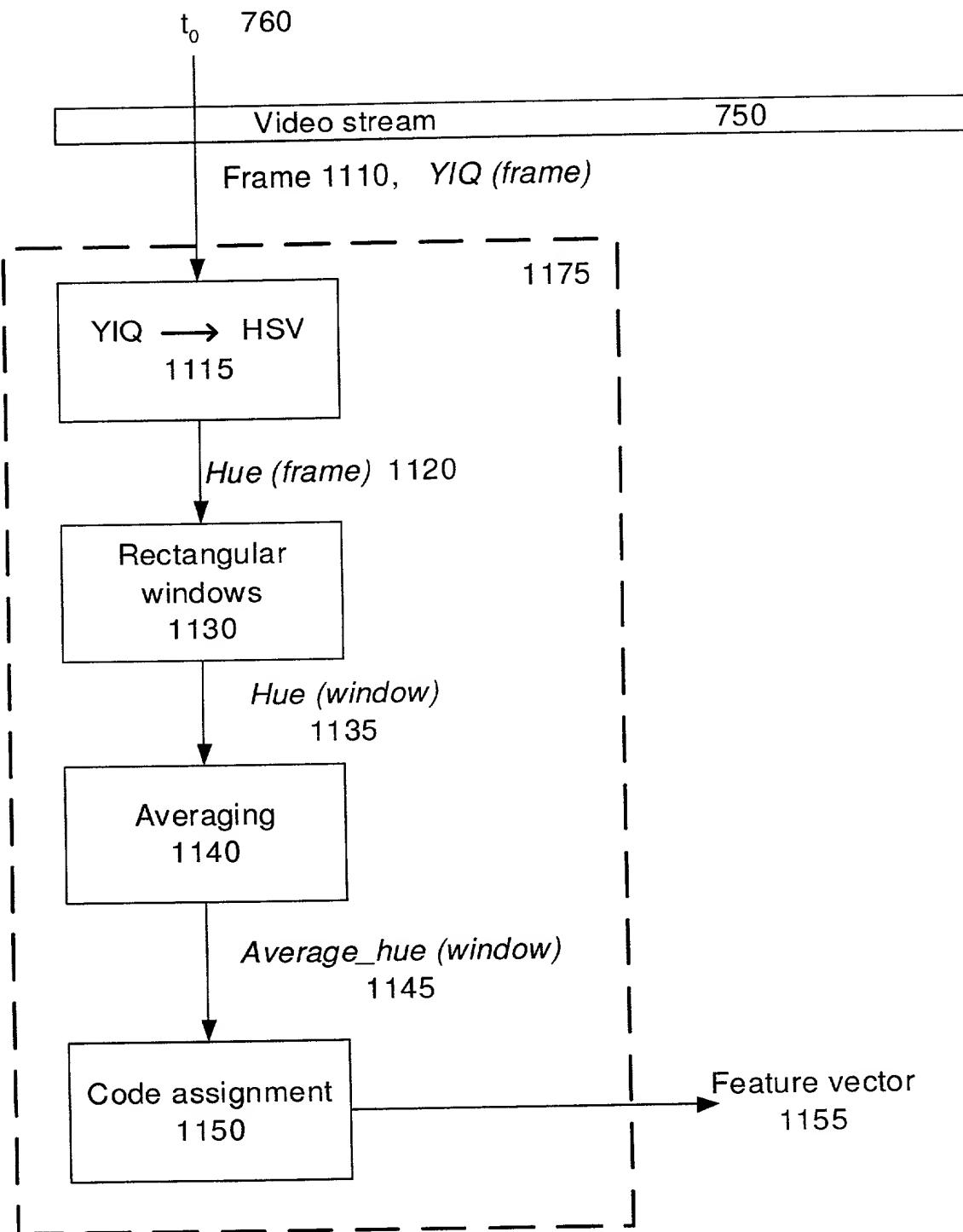


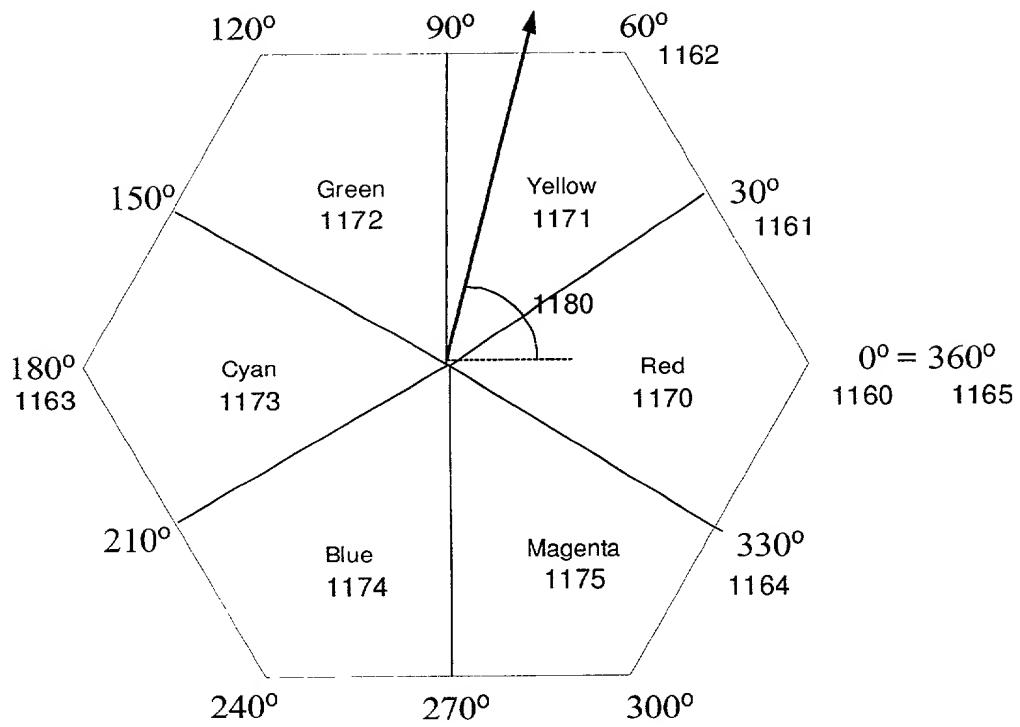
Figure 9A



**Figure 10**



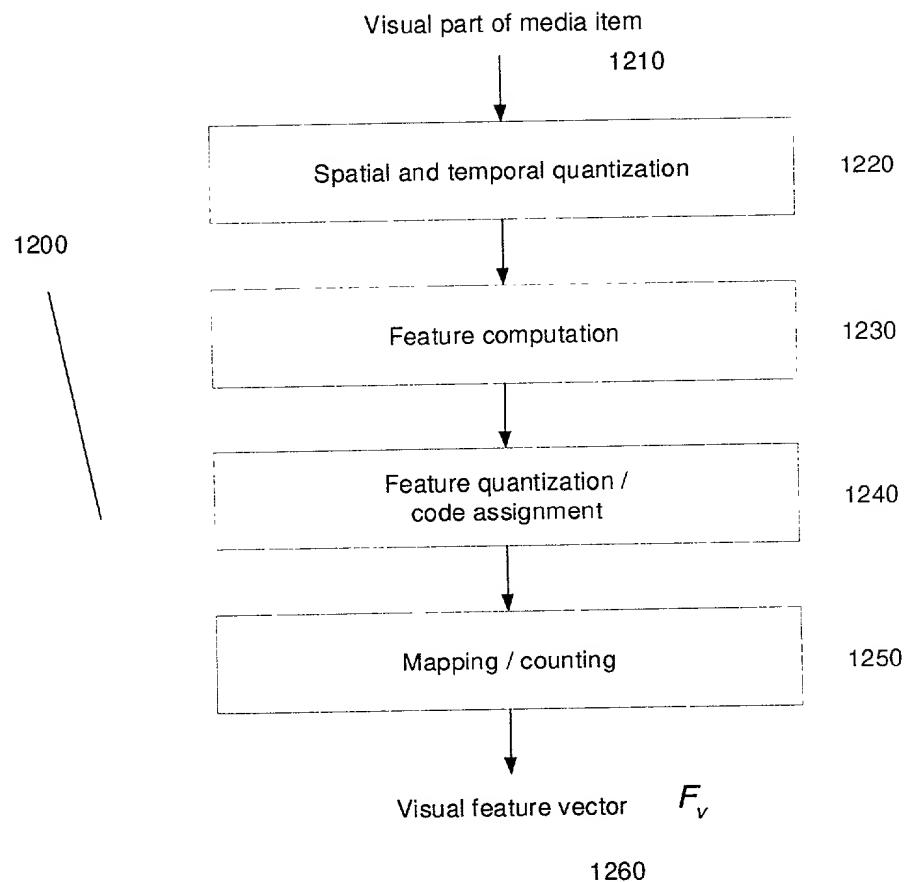
**Figure 11A**



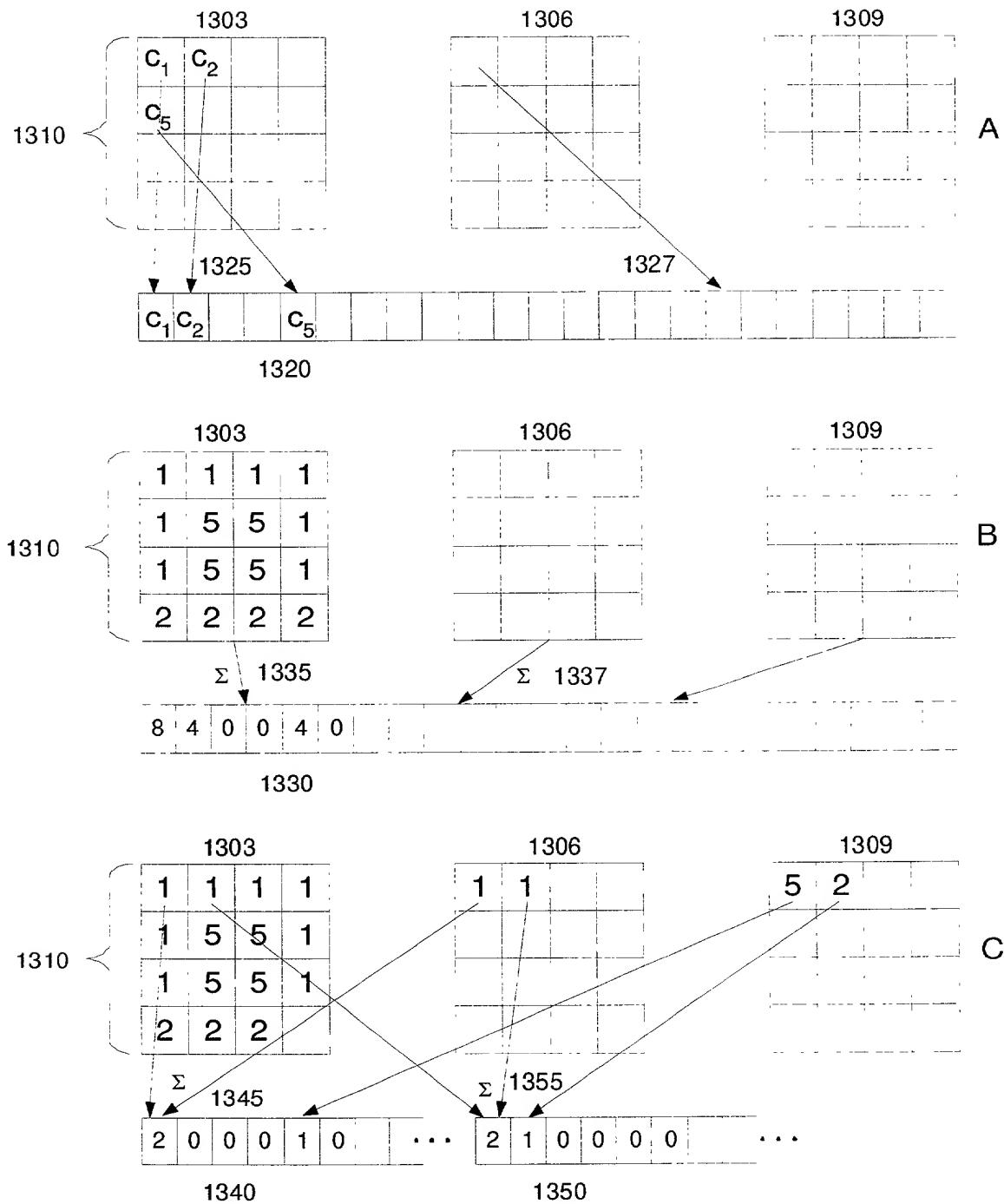
Hue quantization (1180)

<i>Color range</i>	<i>Code</i>	<i>Color</i>	<i>(1180)</i>
330 - 30 degrees	0	Red	(1170)
30 - 90 degrees	1	Yellow	(1171)
90 - 150 degrees	2	Green	(1172)
150 - 210 degrees	3	Cyan	(1173)
210 - 270 degrees	4	Blue	(1174)
270 - 330 degrees	5	Magenta	(1175)

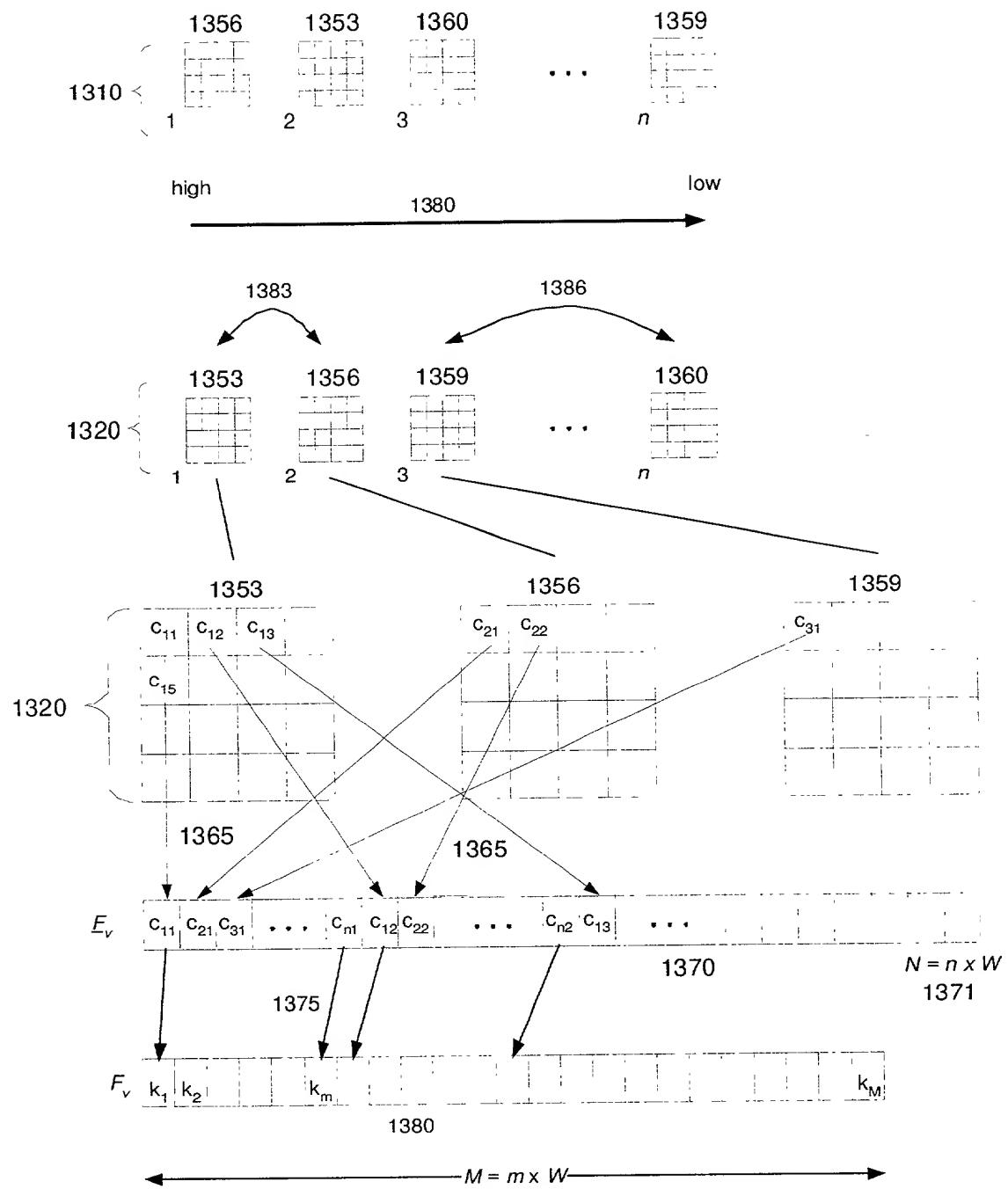
Figure 11B



**Figure 12**



**Figure 13**



**Figure 13D**

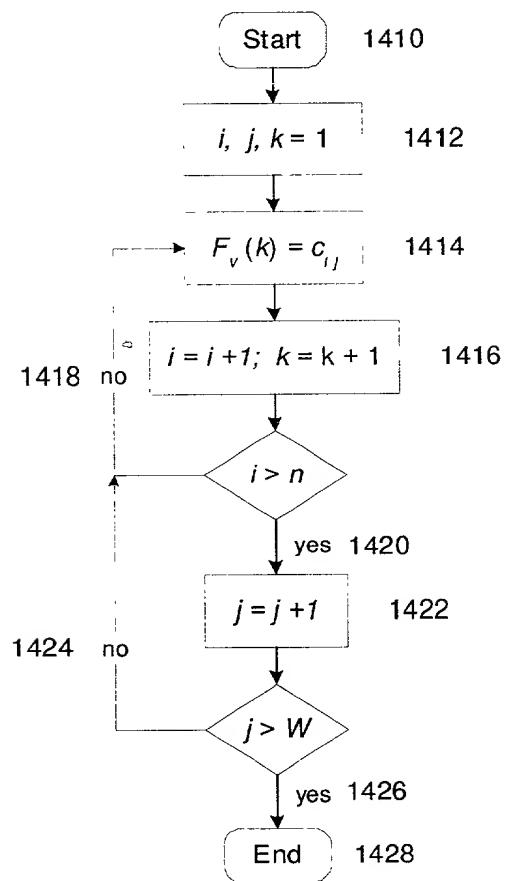
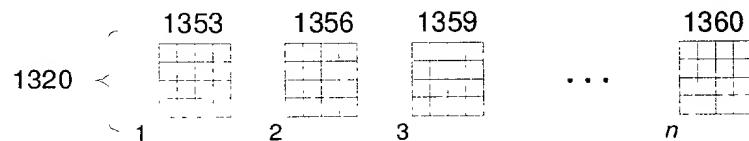
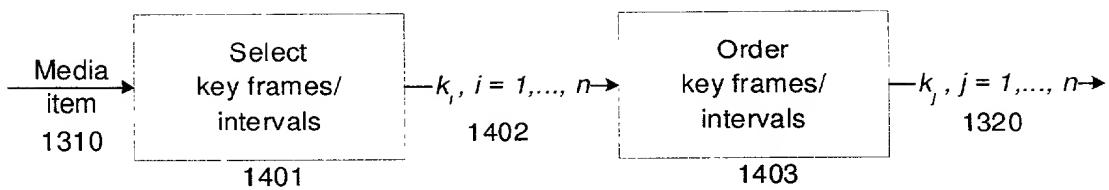
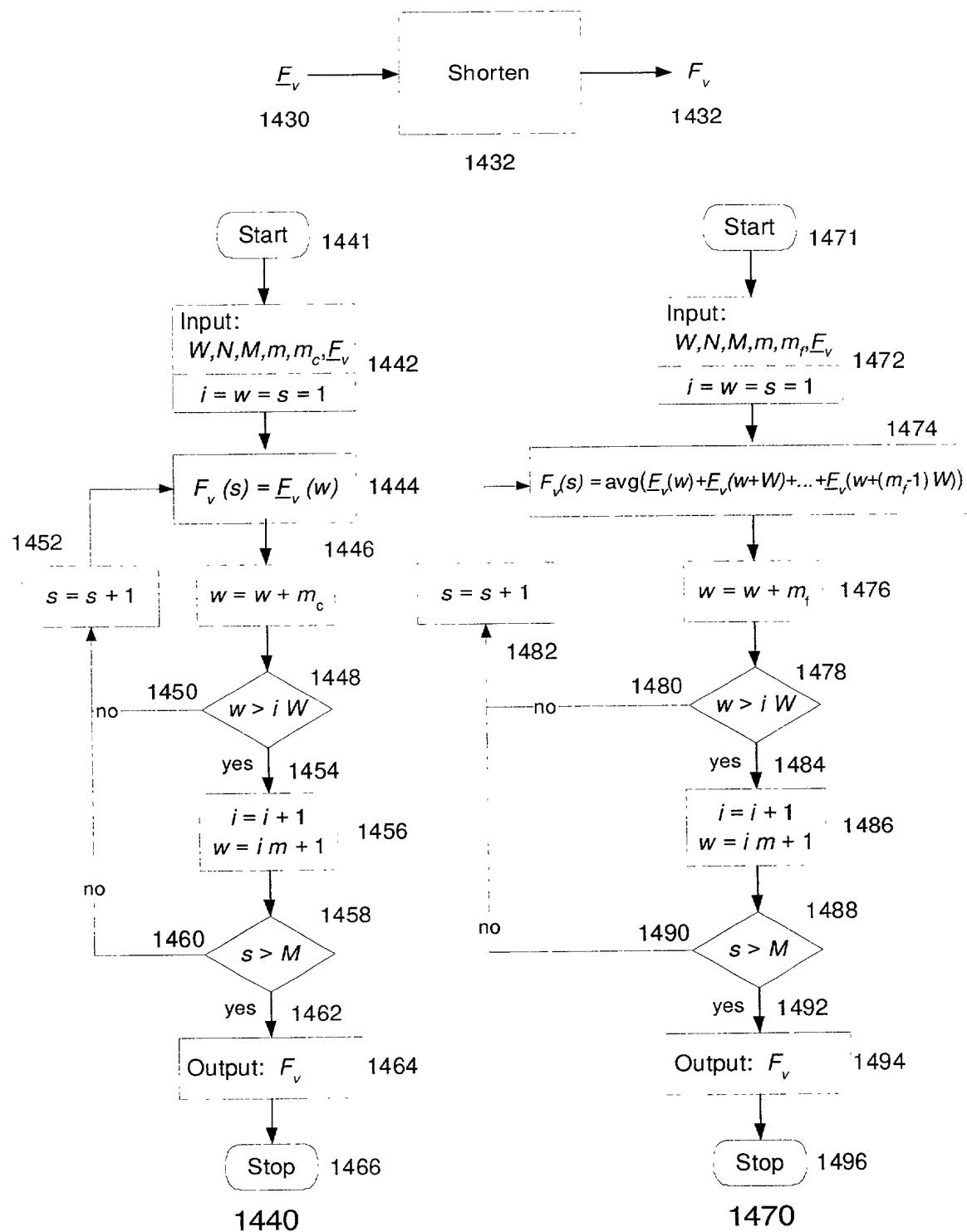
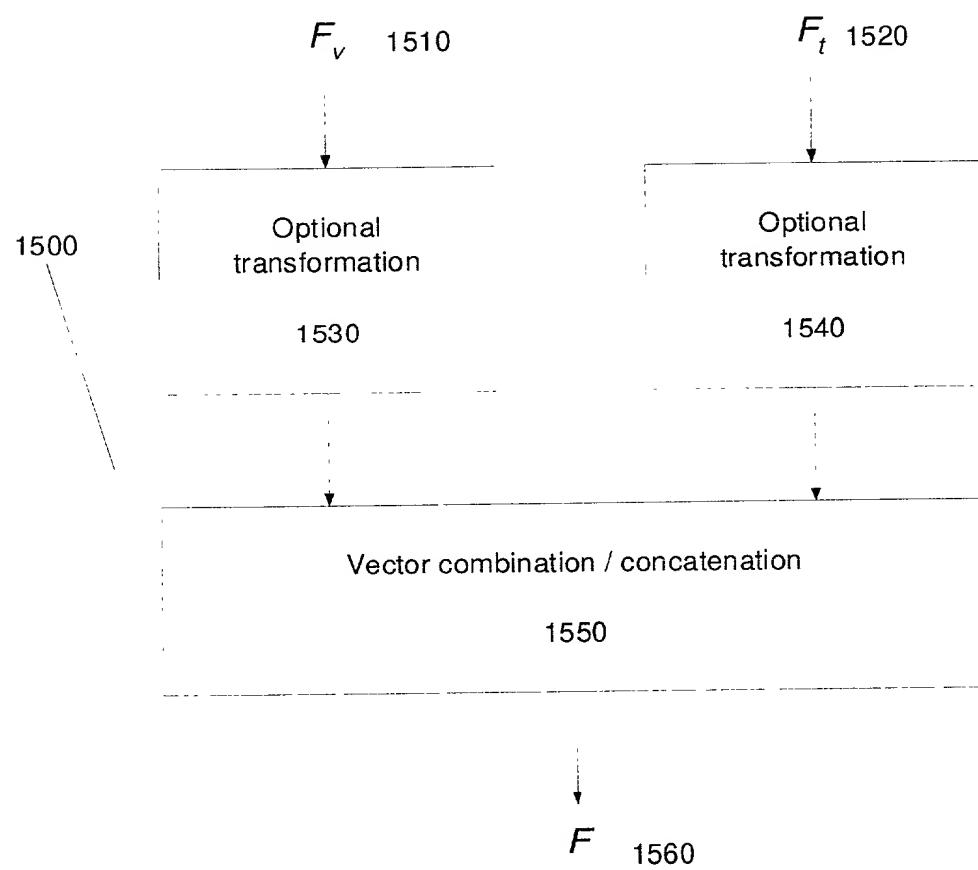


Figure 14A



**Figure 14B**



**Figure 15**

1601

1603  
NTSC  
PAL

1607

1609  
MPEG1  
MPEG2  
file or stream

1611

1613  
AVI  
file

1617

1619  
xxx  
file

1621

1623  
Real Video  
stream or file

1627

1601

M

Media item

1629  
RGB / YIQ  
Frames

1631

Category  
representations

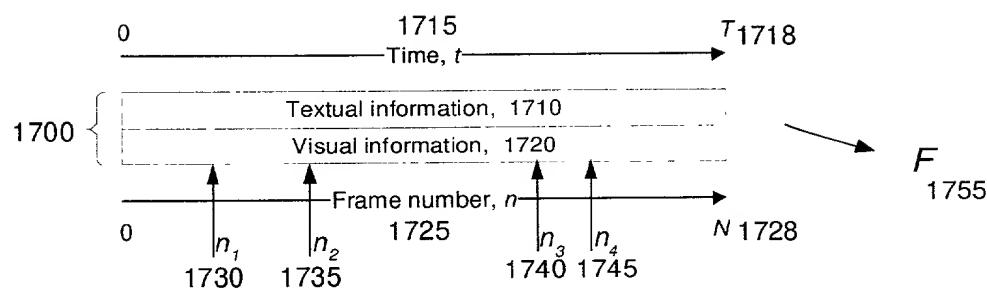
1633

Categorization  
engine

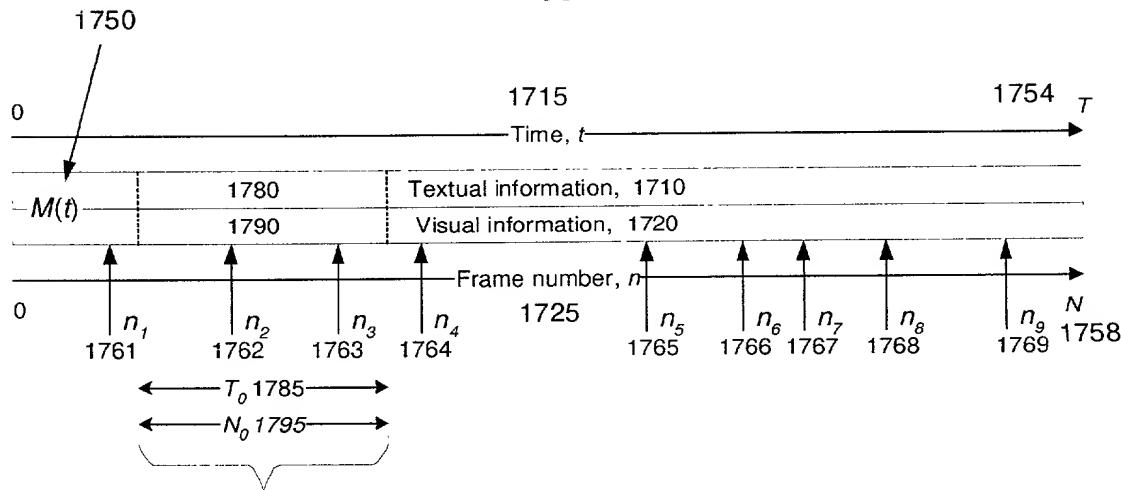
1637  
Category

```
graph TD; 1601[1601] --> 1603[1603]; 1601 --> 1609[1609]; 1601 --> 1613[1613]; 1601 --> 1619[1619]; 1601 --> 1623[1623]; 1603 -- NTSC/PAL --> 1607[1607]; 1609 -- MPEG1/MPEG2 file/stream --> 1611[1611]; 1613 -- AVI file --> 1617[1617]; 1619 -- xxx file --> 1621[1621]; 1623 -- Real Video stream/file --> 1627[1627]; 1607 --> 1629[1629]; 1611 --> 1629; 1617 --> 1629; 1621 --> 1629; 1627 --> 1629; 1629 --> 1633[1633]; 1633 --> 1631[1631]; 1633 --> 1637[1637];
```

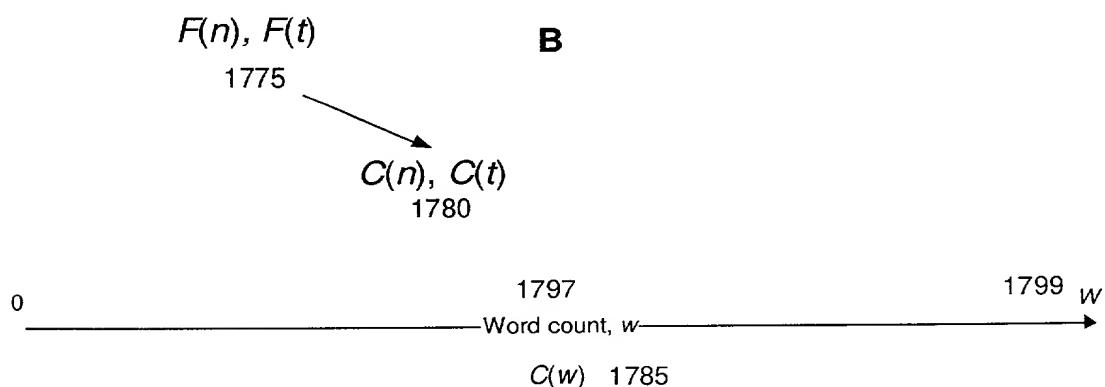
Figure 16



**A**



**B**



**Figure 17**

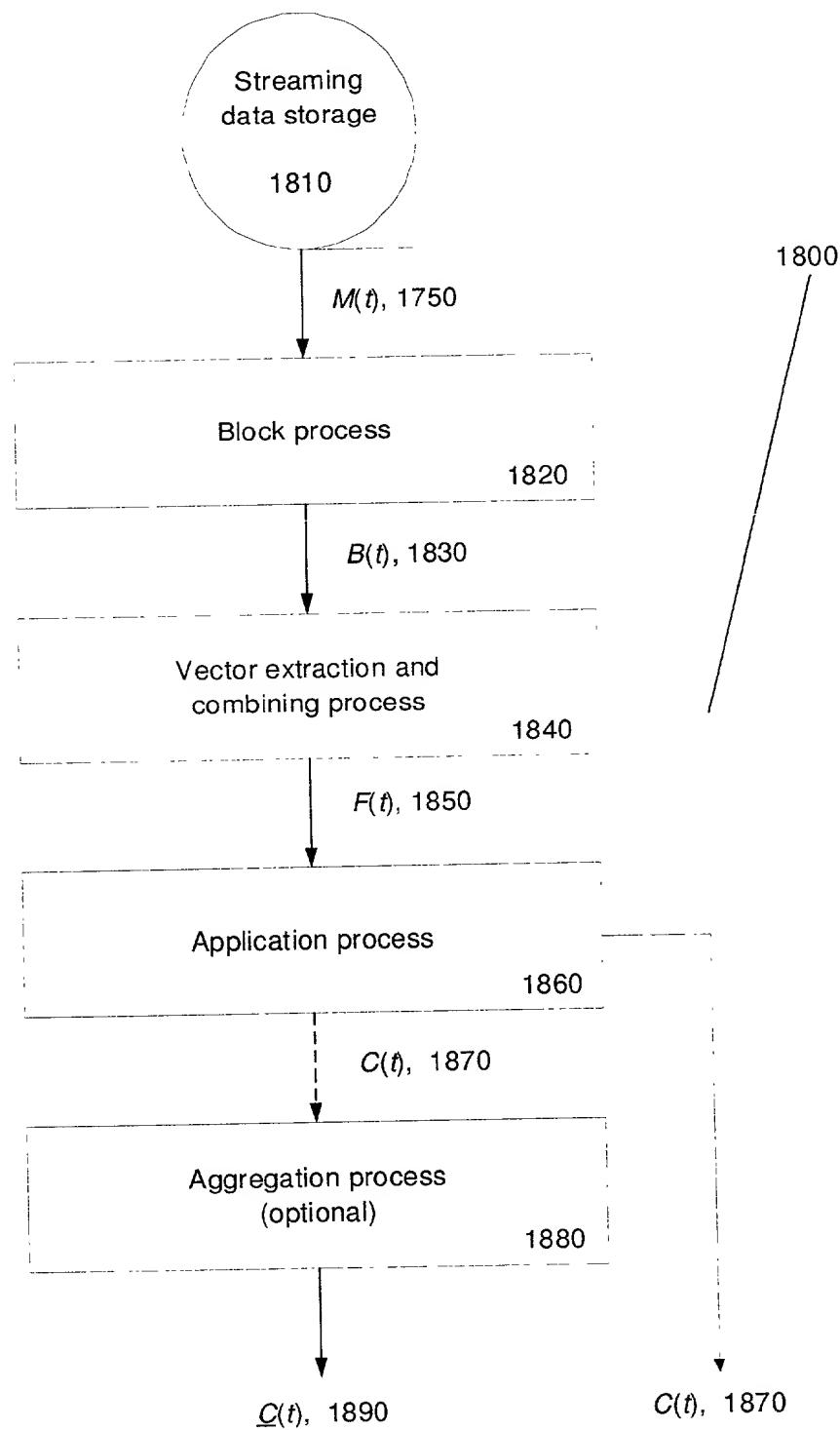
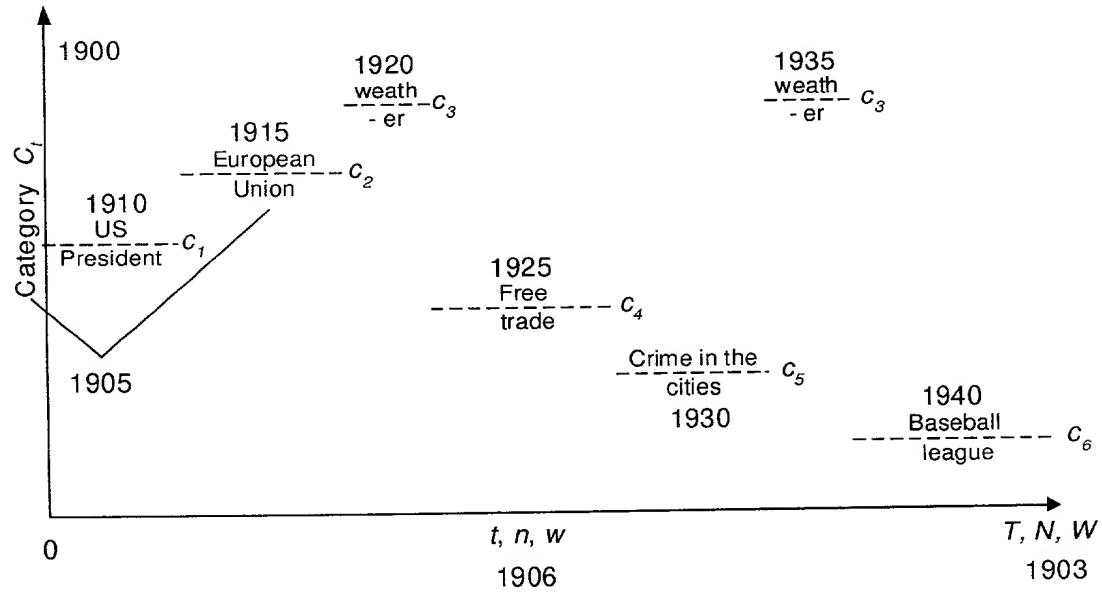
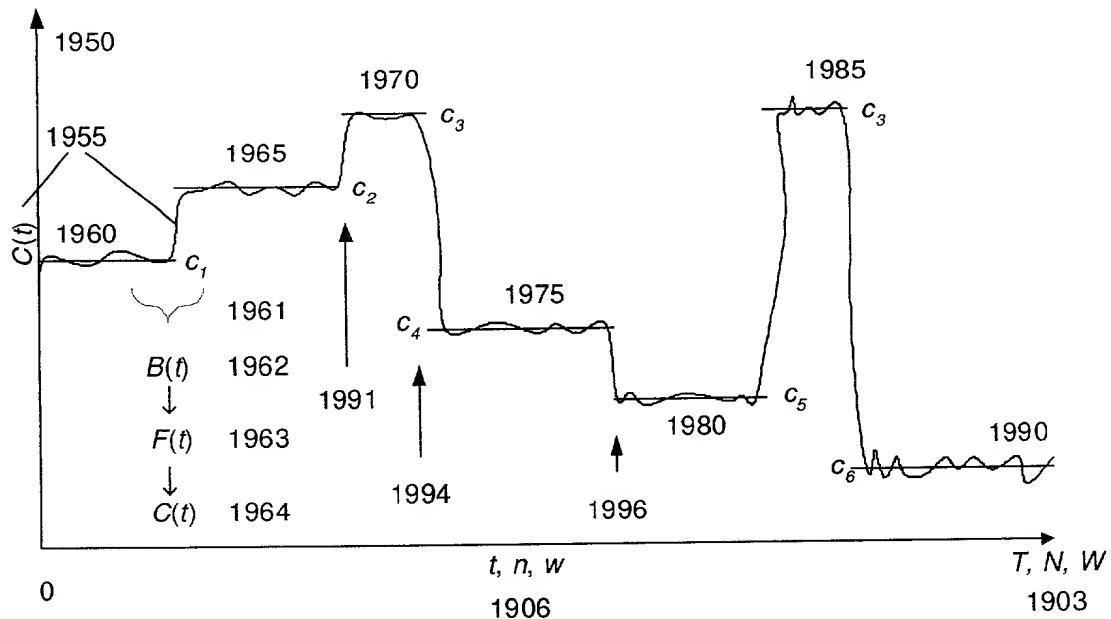


Figure 18



**A**



**B**

**Figure 19**

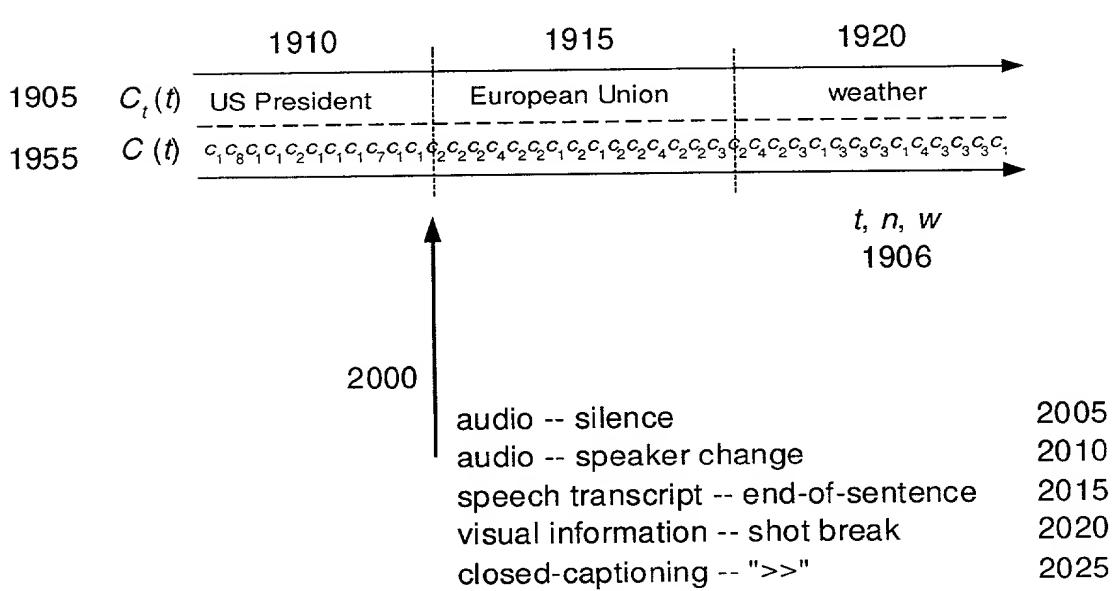
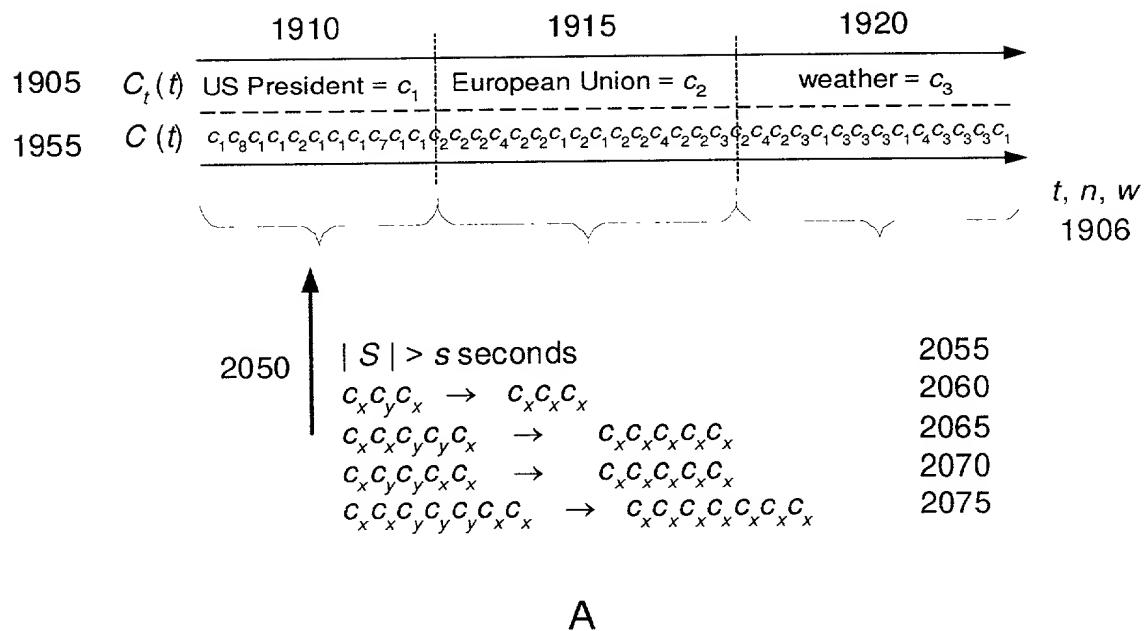


Figure 20

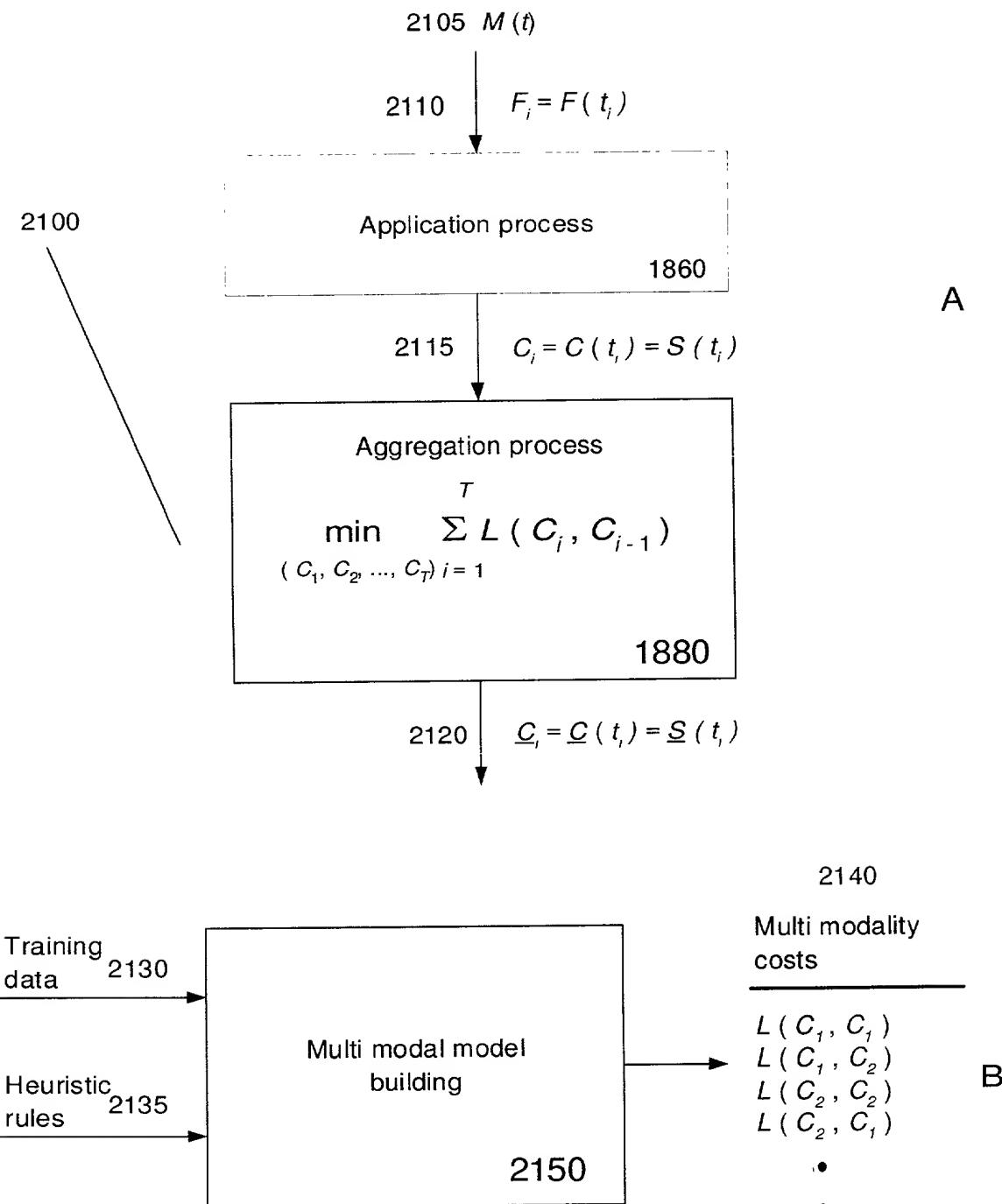
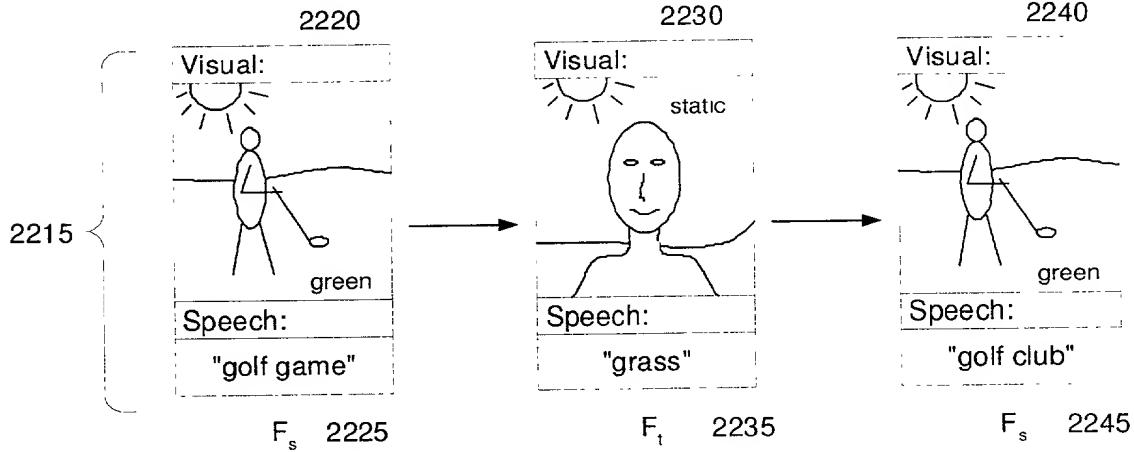


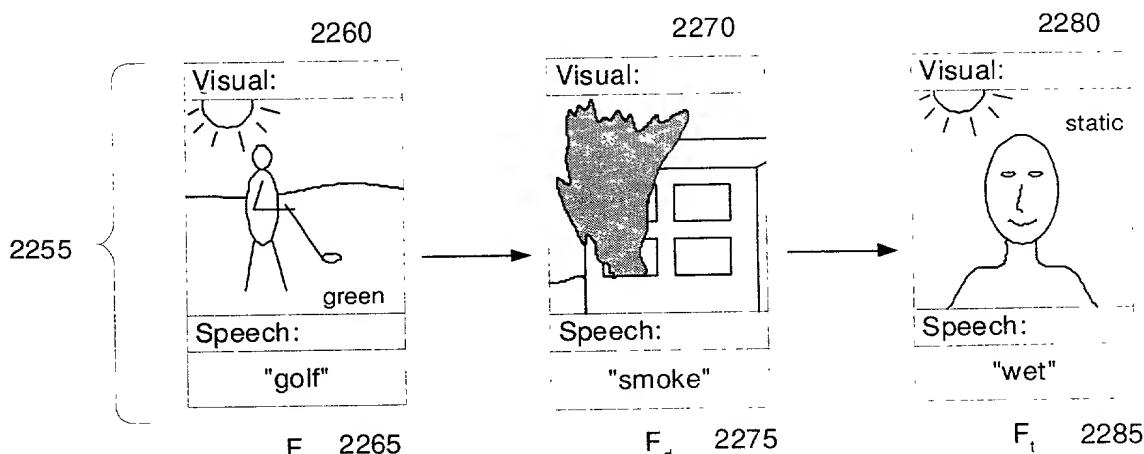
Figure 21

$F_s \rightarrow \text{"sport"}$	$L(\text{sport}, \text{sport})$	= small
$F_t \rightarrow \text{"sport or disaster"}$	$L(\text{sport}, \text{disaster})$	= large
$F_d \rightarrow \text{"disaster"}$	$L(\text{disaster}, \text{sport})$	= large
2205	$L(\text{disaster}, \text{disaster})$	= small

2210



Interpretation:  
sport  $\rightarrow$  sport  $\rightarrow$  sport  $\rightarrow$  sport 2250



Interpretation:  
sport  $\rightarrow$  disaster  $\rightarrow$  disaster 2290

Figure 22